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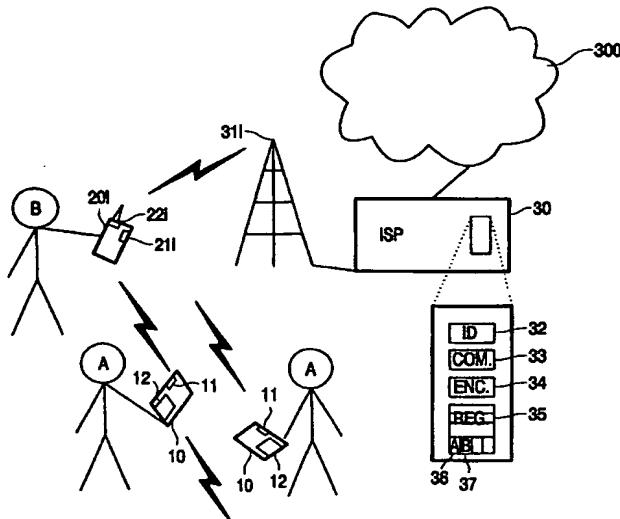
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Declaration under Rule 4.17:

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[Continued on next page]

(54) Title: MOBILE AD-HOC INTERNET SHARING



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(57) Abstract: A method and a system for mobile ad-hoc Internet sharing. The system comprises a first portable device (10) that is provided with wireless communication capability (11) and that is enabled to identify a user A of the device (10), a second device (20I;20II) that is provided with wireless communication capability (21I;21II) and with capability (22I;22II) to connect to the Internet via an ISP, and that is enabled to identify a user B responsible for the connection, and an ISP (30). The method comprises wirelessly sending information from the first device (10) to the second device (20I;20II), for initiating a connection between the first device (10) and the ISP (30), forwarding the information from the second device (20I;20II) to the ISP (30), identifying, at the ISP (30), that the information is sent from user B and originates from user A, and initiating, at the ISP (30), registration for charging of an account (36) of user A for said connection.



CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE,

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02 51038 A (BENSON MAYA ;KOURTIS STAMATIS (GB); MOTOROLA INC (US); KOTZIN MICH) 27 June 2002 (2002-06-27) abstract page 4, line 27 -page 6, line 2 figure 1 ----	1-13
A	ETSI: "Universal Mobile Telecommunications System (UMTS); UMTS Terrestrial Radio Access (UTRA); Concept evaluation (UMTS 30.06 version 3.0.0)" TR 101 146 V3.0.0 TECHNICAL REPORT, December 1997 (1997-12), pages 144-172, XP002265518 Sophia Antipolis (F) page 144, line 1 -page 150, last line ---- -/-	1-13

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Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>3GPP: "3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Opportunity Driven Multiple Access (3G TR 25.924 version 1.0.0)" 3G TR 25.924 V1.0.0 TECHNICAL REPORT, December 1999 (1999-12), pages 1-13, XP002265519 Sophia Antipolis (F) page 6, line 1 -page 8, last line -----</p>	1-13
A	<p>3GPP: "3rd Generation Partnership Project; Technical Specification Group Services and System Aspects; Mobile multimedia services including mobile Intranet and Internet services (3G TR 22.969 version 3.0.1)" 3G TR 22.960 3.0.1 TECHNICAL REPORT, April 1999 (1999-04), pages 1-15, XP002265520 Sophia Antipolis (F) paragraph '06.5! -----</p>	1-13

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Patent document cited in search report	Publication date	Patent family member(s)		Publication date
WO 0251038	A 27-06-2002	GB AU WO	2375920 A 1404602 A 0251038 A1	27-11-2002 01-07-2002 27-06-2002